

5300 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)577-9887 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

## **MODEL 5300557**

400 - 450 MHz 300 WATTS LINEAR POWER RF AMPLIFIER

## Solid State Broadband High Power RF Amplifier

The 5300557 is a 300 Watt broadband amplifier that covers the 400 – 450 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5300557 comes with an extended multiyear warranty.

The 5300557, RF Module is designed with an internal Copper Spreader for proper heat dissipation, which must be mounted onto a heatsink.

	<u>Parameter</u>	Specification @ 25° C	
<b>Electrical</b>			
1	Frequency Range	400 – 450 MHz	
2	Saturated Output Power	300 Watts Minimum	
3	Power Output @ 1dB Comp.	180 Watts Minimum	
4	Small Signal Gain	+20 dB min	
5	Power flatness Small signal gain flatness	± 0.50 dB max <u>+</u> 1.50 dB max	
6	IP <sub>3</sub>	+60 dBm typical	
7	Input VSWR	2:1 max	
8	Harmonics	≤-20 dBc @ 180 Watts	
9	Spurious Signals	≤ -60 dBc @ 180 Watts	
10	Input/Output Impedance	50 Ohms nominal	
11	DC Input Current	30 Amps max	
12	DC Input	28 Vdc nominal 30 Vdc Maximum	
13	RF Input	+40 dBm (10 W) max.	
14	RF Input Signal Format	CW/AM/FM/PM/Pulse	
15	Class of Operation	Α	
<u>Mechanical</u>		7	
16	Dimensions	7.2" x 4.1" x 1.0"	
17	Weight	3 lb. Maximum	
18	Connectors	SMA female / Type-N	
19	Grounding	Chassis	
20	Cooling	Adequate Heatsink and Air- flow Required	
<b>Environmental</b>			
21	Operating Temperature	0° C to +50° C	
22	Operating Humidity	95% Non-condensing	
23	Operating Altitude	Up to 10,000' Above Sea Level	
24	Shock and Vibration	Normal Truck Transport	

Specifications subject to change without notice



\*Recommended Driver: 5303027

07/16	Approved By:	Date:	